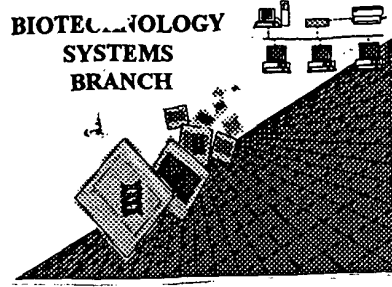


W 10  
0913



# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/942,588  
Source: OIPE  
Date Processed by STIC: 9/18/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.  
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**  
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,  
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY  
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.  
PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)  
PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25. Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001  
TIME: 14:56:13

Input Set : A:\PTO\_VSK.txt  
Output Set: N:\CRF3\09182001\I942588.raw

2 <110> APPLICANT: Canon INC.  
W--> 3 <120> TITLE OF INVENTION: Screening method for gene variation  
W--> 4 <130> FILE REFERENCE: CFO 15717  
C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/942,588  
C--> 5 <141> CURRENT FILING DATE: 2001-08-31  
5 <150> PRIOR APPLICATION NUMBER: JP 2000-263396  
W--> 6 <160> NUMBER OF SEQ ID: 67

Does Not Comply  
Corrected Diskette Needed

→ 157 insert

pp 1-4

Also remove identification  
report, since 1507 is  
down

ERRORED SEQUENCES

W--> 7 <210> SEQ ID NO: 1  
8 <211> LENGTH: 18  
9 <212> TYPE: DNA  
10 <213> ORGANISM: Artificial sequence  
W--> 11 <220> FEATURE:  
12 <223> OTHER INFORMATION: Sample oligonucleotide  
W--> 13 <400> SEQUENCE: 1  
E--> 14 gatgggactc aagttcat  
15 <210> SEQ ID NO: 2  
16 <211> LENGTH: 18  
17 <212> TYPE: DNA  
18 <213> ORGANISM: Artificial sequence  
W--> 19 <220> FEATURE:  
20 <223> OTHER INFORMATION: Sample oligonucleotide  
W--> 21 <400> SEQUENCE: 2  
E--> 22 gatgggactc agttcat  
23 <210> SEQ ID NO: 3  
24 <211> LENGTH: 18  
25 <212> TYPE: DNA  
26 <213> ORGANISM: Artificial sequence  
W--> 27 <220> FEATURE:  
28 <223> OTHER INFORMATION: Sample oligonucleotide  
W--> 29 <400> SEQUENCE: 3  
E--> 30 gatgggactc acgttcat  
31 <210> SEQ ID NO: 4  
32 <211> LENGTH: 18  
33 <212> TYPE: DNA  
34 <213> ORGANISM: Artificial sequence  
W--> 35 <220> FEATURE:  
36 <223> OTHER INFORMATION: Sample oligonucleotide  
W--> 37 <400> SEQUENCE: 4  
E--> 38 gatgggactc atgttcat  
39 <210> SEQ ID NO: 5  
40 <211> LENGTH: 18  
41 <212> TYPE: DNA  
42 <213> ORGANISM: Artificial sequence

18 ← insert cumulative base total  
at right margin of each  
line

same error

same

same

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001  
 TIME: 14:56:13

Input Set : A:\PTO\_VSK.txt  
 Output Set: N:\CRF3\09182001\I942588.raw

W--> 43 <220> FEATURE:  
 44 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 45 <400> SEQUENCE: 5  
 E--> 46 gatgggactc gatgtcat *same*  
 47 <210> SEQ ID NO: 6  
 48 <211> LENGTH: 18  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: Artificial sequence  
 W--> 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 53 <400> SEQUENCE: 6  
 E--> 54 gatgggactcgggtcat *insert a space - group all non-coding bases into 10's, with a space*  
 55 <210> SEQ ID NO: 7  
 56 <211> LENGTH: 18  
 57 <212> TYPE: DNA  
 58 <213> ORGANISM: Artificial sequence  
 W--> 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 61 <400> SEQUENCE: 7  
 E--> 62 gatgggactc gcgttcac *same*  
 63 <210> SEQ ID NO: 8  
 64 <211> LENGTH: 18  
 65 <212> TYPE: DNA  
 66 <213> ORGANISM: Artificial sequence  
 W--> 67 <220> FEATURE:  
 68 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 69 <400> SEQUENCE: 8  
 E--> 70 gatgggactc gtgttcac *same*  
 71 <210> SEQ ID NO: 9  
 72 <211> LENGTH: 18  
 73 <212> TYPE: DNA  
 74 <213> ORGANISM: Artificial sequence  
 W--> 75 <220> FEATURE:  
 76 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 77 <400> SEQUENCE: 9  
 E--> 78 gatgggactc cagttcat *same*  
 79 <210> SEQ ID NO: 10  
 80 <211> LENGTH: 18  
 81 <212> TYPE: DNA  
 82 <213> ORGANISM: Artificial sequence  
 W--> 83 <220> FEATURE:  
 84 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 85 <400> SEQUENCE: 10  
 E--> 86 gatgggactc cggttcac *same*  
 87 <210> SEQ ID NO: 11  
 88 <211> LENGTH: 18  
 89 <212> TYPE: DNA  
 90 <213> ORGANISM: Artificial sequence  
 W--> 91 <220> FEATURE:

*insert cumulative  
 base total at  
 right margin  
 between  
 groups*

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001  
 TIME: 14:56:13

Input Set : A:\PTO\_VSK.txt  
 Output Set: N:\CRF3\09182001\I942588.raw

92 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 93 <400> SEQUENCE: 11  
 E--> 94 gatgggactc ccgttcat *same*  
 95 <210> SEQ ID NO: 12  
 96 <211> LENGTH: 18  
 97 <212> TYPE: DNA  
 98 <213> ORGANISM: Artificial sequence  
 W--> 99 <220> FEATURE:  
 100 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 101 <400> SEQUENCE: 12  
 E--> 102 gatgggactc ctgttcat *same*  
 103 <210> SEQ ID NO: 13  
 104 <211> LENGTH: 18  
 105 <212> TYPE: DNA  
 106 <213> ORGANISM: Artificial sequence  
 W--> 107 <220> FEATURE:  
 108 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 109 <400> SEQUENCE: 13  
 E--> 110 gatgggactc tagttcat *same*  
 111 <210> SEQ ID NO: 14  
 112 <211> LENGTH: 18  
 113 <212> TYPE: DNA  
 114 <213> ORGANISM: Artificial sequence  
 W--> 115 <220> FEATURE:  
 116 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 117 <400> SEQUENCE: 14  
 E--> 118 gatgggactc tggttcat *same*  
 119 <210> SEQ ID NO: 15  
 120 <211> LENGTH: 18  
 121 <212> TYPE: DNA  
 122 <213> ORGANISM: Artificial sequence  
 W--> 123 <220> FEATURE:  
 124 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 125 <400> SEQUENCE: 15  
 E--> 126 gatgggactc tcgttcat *same*  
 127 <210> SEQ ID NO: 16  
 128 <211> LENGTH: 18  
 129 <212> TYPE: DNA  
 130 <213> ORGANISM: Artificial sequence  
 W--> 131 <220> FEATURE:  
 132 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 133 <400> SEQUENCE: 16  
 E--> 134 gatgggactc ttgttcat *same*  
 135 <210> SEQ ID NO: 17  
 136 <211> LENGTH: 18  
 137 <212> TYPE: DNA  
 138 <213> ORGANISM: Artificial sequence  
 W--> 139 <220> FEATURE:  
 140 <223> OTHER INFORMATION: Sample oligonucleotide

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001  
 TIME: 14:56:13

Input Set : A:\PTO\_VSK.txt  
 Output Set: N:\CRF3\09182001\I942588.raw

W--> 141 <400> SEQUENCE: 17  
 E--> 142 gatggggctc aagttcat *same*  
 143 <210> SEQ ID NO: 18  
 144 <211> LENGTH: 18  
 145 <212> TYPE: DNA  
 146 <213> ORGANISM: Artificial sequence  
 W--> 147 <220> FEATURE:  
 148 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 149 <400> SEQUENCE: 18  
 E--> 150 gatggggctc agttcat *same*  
 151 <210> SEQ ID NO: 19  
 152 <211> LENGTH: 18  
 153 <212> TYPE: DNA  
 154 <213> ORGANISM: Artificial sequence  
 W--> 155 <220> FEATURE:  
 156 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 157 <400> SEQUENCE: 19  
 E--> 158 gatggggctc acgttcat *same*  
 159 <210> SEQ ID NO: 20  
 160 <211> LENGTH: 18  
 161 <212> TYPE: DNA  
 162 <213> ORGANISM: Artificial sequence  
 W--> 163 <220> FEATURE:  
 164 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 165 <400> SEQUENCE: 20  
 E--> 166 gatggggctc atgttcat *same*  
 167 <210> SEQ ID NO: 21  
 168 <211> LENGTH: 18  
 169 <212> TYPE: DNA  
 170 <213> ORGANISM: Artificial sequence  
 W--> 171 <220> FEATURE:  
 172 <223> OTHER INFORMATION: Sample oligonucleotide  
 W--> 173 <400> SEQUENCE: 21  
 E--> 174 gatggggctc gagttcat *same*

↓  
 The types of errors shown exist throughout  
 the Sequence Listing. Please check subsequent  
 sequences for similar errors.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001

TIME: 14:56:14

Input Set : A:\PTO\_VSK.txt

Output Set: N:\CRF3\09182001\I942588.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier  
L:4 M:283 W: Missing Blank Line separator, <130> field identifier  
L:5 M:270 C: Current Application Number differs, Replaced Current Application No  
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:6 M:283 W: Missing Blank Line separator, <160> field identifier  
L:7 M:283 W: Missing Blank Line separator, <210> field identifier  
L:11 M:283 W: Missing Blank Line separator, <220> field identifier  
L:13 M:283 W: Missing Blank Line separator, <400> field identifier  
L:14 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:1  
L:19 M:283 W: Missing Blank Line separator, <220> field identifier  
L:21 M:283 W: Missing Blank Line separator, <400> field identifier  
L:22 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:2  
L:27 M:283 W: Missing Blank Line separator, <220> field identifier  
L:29 M:283 W: Missing Blank Line separator, <400> field identifier  
L:30 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:3  
L:35 M:283 W: Missing Blank Line separator, <220> field identifier  
L:37 M:283 W: Missing Blank Line separator, <400> field identifier  
L:38 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:4  
L:43 M:283 W: Missing Blank Line separator, <220> field identifier  
L:45 M:283 W: Missing Blank Line separator, <400> field identifier  
L:46 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:5  
L:51 M:283 W: Missing Blank Line separator, <220> field identifier  
L:53 M:283 W: Missing Blank Line separator, <400> field identifier  
L:54 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:17 SEQ:6  
L:54 M:252 E: No. of Seq. differs, <211>LENGTH:Input:18 Found:17 SEQ:6  
L:59 M:283 W: Missing Blank Line separator, <220> field identifier  
L:61 M:283 W: Missing Blank Line separator, <400> field identifier  
L:62 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:7  
L:67 M:283 W: Missing Blank Line separator, <220> field identifier  
L:69 M:283 W: Missing Blank Line separator, <400> field identifier  
L:70 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:8  
L:75 M:283 W: Missing Blank Line separator, <220> field identifier  
L:77 M:283 W: Missing Blank Line separator, <400> field identifier  
L:78 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:9  
L:83 M:283 W: Missing Blank Line separator, <220> field identifier  
L:85 M:283 W: Missing Blank Line separator, <400> field identifier  
L:86 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:10  
L:91 M:283 W: Missing Blank Line separator, <220> field identifier  
L:93 M:283 W: Missing Blank Line separator, <400> field identifier  
L:94 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:11  
L:99 M:283 W: Missing Blank Line separator, <220> field identifier  
L:101 M:283 W: Missing Blank Line separator, <400> field identifier  
L:102 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:12  
L:107 M:283 W: Missing Blank Line separator, <220> field identifier  
L:109 M:283 W: Missing Blank Line separator, <400> field identifier  
L:110 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:13  
L:115 M:283 W: Missing Blank Line separator, <220> field identifier  
L:117 M:283 W: Missing Blank Line separator, <400> field identifier

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001

TIME: 14:56:14

Input Set : A:\PTO\_VSK.txt

Output Set: N:\CRF3\09182001\I942588.raw

L:118 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:14  
L:123 M:283 W: Missing Blank Line separator, <220> field identifier  
L:125 M:283 W: Missing Blank Line separator, <400> field identifier  
L:126 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:15  
L:131 M:283 W: Missing Blank Line separator, <220> field identifier  
L:133 M:283 W: Missing Blank Line separator, <400> field identifier  
L:134 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:16  
L:139 M:283 W: Missing Blank Line separator, <220> field identifier  
L:141 M:283 W: Missing Blank Line separator, <400> field identifier  
L:142 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:17  
L:147 M:283 W: Missing Blank Line separator, <220> field identifier  
L:149 M:283 W: Missing Blank Line separator, <400> field identifier  
L:150 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:18  
L:155 M:283 W: Missing Blank Line separator, <220> field identifier  
L:157 M:283 W: Missing Blank Line separator, <400> field identifier  
L:158 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:19  
L:163 M:283 W: Missing Blank Line separator, <220> field identifier  
L:165 M:283 W: Missing Blank Line separator, <400> field identifier  
L:166 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:20  
L:171 M:283 W: Missing Blank Line separator, <220> field identifier  
L:173 M:283 W: Missing Blank Line separator, <400> field identifier  
L:174 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:21  
L:179 M:283 W: Missing Blank Line separator, <220> field identifier  
L:181 M:283 W: Missing Blank Line separator, <400> field identifier  
L:182 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:22  
L:187 M:283 W: Missing Blank Line separator, <220> field identifier  
L:189 M:283 W: Missing Blank Line separator, <400> field identifier  
L:190 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:23  
L:198 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:24  
L:206 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:25  
L:214 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:26  
L:222 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:27  
L:230 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:28  
L:238 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:29  
L:246 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:30  
L:254 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:31  
L:262 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:32  
L:270 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:33  
L:278 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:34  
L:286 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:35  
L:294 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:36  
L:302 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:37  
L:310 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:38  
L:318 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:39  
L:326 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:40  
L:334 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:41  
L:342 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:42  
L:350 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:43  
L:358 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:44

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/942,588

DATE: 09/18/2001  
TIME: 14:56:14

Input Set : A:\PTO\_VSK.txt  
Output Set: N:\CRF3\09182001\I942588.raw

L:366 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:45  
L:374 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:46  
L:382 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:47  
L:390 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:48  
L:398 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:49  
L:406 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:18 SEQ:50